

IN THE CLAIMS

1. (Currently Amended) A power supply antenna, comprising:
a plurality of coils disposed concentrically, the plurality of coils being prepared by bending a plurality of conductors each into a form of an arc, ~~and~~ wherein
power supply portions, formed at opposite ends of the respective coils so as to be connected to a high frequency power source, are located in different phases on a same plane.

2. (Canceled).

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3. (Currently Amended) A power supply antenna, comprising:
a plurality of coils disposed concentrically, the plurality of coils being prepared by bending a plurality of conductors each into a form of an arc, ~~and~~ wherein
power supply portions, formed at opposite ends of the respective coils so as to be connected to a high frequency power source, are located in different phases on a same plane,
and
at least one of the coils is disposed on a plane other than the same plane to vary mutual inductances so that a distribution of energy absorbed to a plasma is adjusted.

4. (Currently Amended) A power supply antenna, comprising:
a plurality of coils disposed concentrically, the plurality of coils being prepared by bending a plurality of conductors each into a form of an arc, ~~and~~ wherein
power supply portions, formed at opposite ends of the respective coils so as to be connected to a high frequency power source, are located in different phases on a same plane,
and
spacing between the adjacent power supply portions in the respective coils is equal.

5-10. (Withdrawn).

11. (Currently Amended) A semiconductor manufacturing apparatus comprising:
a vessel having an electromagnetic wave transparent window;
a power supply antenna provided outside the vessel and opposed to the
electromagnetic wave transparent window; and

a power source for applying a high frequency voltage to the power supply antenna,
and being adapted to apply the high frequency voltage from the power source to the power
supply antenna to generate an electromagnetic wave, and pass the electromagnetic wave
through the electromagnetic wave transparent window into the vessel to generate a plasma,
thereby treating a surface of a substrate in the vessel, wherein

the power supply antenna comprises

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a plurality of coils disposed concentrically, the plurality of coils being
prepared by bending a plurality of conductors each into a form of an arc, and

is configured such that power supply portions, formed at opposite ends of the
respective coils so as to be connected to the power source, are located in different
phases on a same plane.

12-17. (Withdrawn).
